



## SEQUENCE LISTING

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<120> Vaccine

<130> 021989-000710US

<140> 10/706,275

<141> 2003-11-13

<150> US 60/426,409

<151> 2002-11-15

<150> AU 2002302132

<151> 2002-11-15

<160> 15

<170> PatentIn version 3.1

<210> 1

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> antigenic peptide sequence derivative of S. pyogenes

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Ala Ser Arg Glu Ala Lys Lys Gln Val Glu Lys Ala Leu Glu  
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Lys Gln Ala Glu Asp Lys Val Lys Ala Ser Arg Glu Ala Lys Lys Gln  
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Val Glu Lys Ala Leu Glu Gln Leu Glu Asp Lys Val Lys  
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Glu Ile Asn Thr Glu Glu Glu Gly Thr Pro Asp Gln Ile Ser Ser Leu  
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Ile Glu Lys

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Ser Glu Ala Ser Arg Lys Ser Ala Glu Asp Lys Val Lys Gln  
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Leu Arg Arg Asp Leu Asp Ala Ser Arg Glu Ala Lys Lys Gln Val Glu  
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Lys Ala Leu Glu  
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Gln Leu Glu Asp Lys Val Lys Gln Leu Arg Arg Asp Leu Asp Ala Ser  
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Arg Glu Ala Lys Glu Glu Leu Gln Asp Lys Val Lys  
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Leu Glu Asp Lys Val Lys Gln Ala Arg Arg Asp Leu Asp Ala Ser Arg  
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Glu Ala Lys Lys Glu Leu Gln Asp Lys Val Lys Gln  
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Glu Asp Lys Val Lys Gln Ala Glu Arg Asp Leu Asp Ala Ser Arg Glu  
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Ala Lys Lys Gln Leu Gln Asp Lys Val Lys Gln Leu  
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Asp Lys Val Lys Gln Ala Glu Asp Asp Leu Asp Ala Ser Arg Glu Ala  
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Lys Lys Gln Val Gln Asp Lys Val Lys Gln Leu Glu  
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Lys Gln Val Glu Asp Lys Val Lys Gln Leu Glu Asp  
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Val Lys Gln Ala Glu Asp Lys Val Asp Ala Ser Arg Glu Ala Lys Lys  
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Gln Val Glu Lys Lys Val Lys Gln Leu Glu Asp Lys  
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Lys Gln Ala Glu Asp Lys Val Lys Ala Ser Arg Glu Ala Lys Lys Gln  
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Val Glu Lys Ala Val Lys Gln Leu Glu Asp Lys Val  
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Gln Ala Glu Asp Lys Val Lys Gln Ser Arg Glu Ala Lys Lys Gln Val  
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Glu Lys Ala Leu Lys Gln Leu Glu Asp Lys Val Gln  
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Ala Glu Asp Lys Val Lys Gln Leu Arg Glu Ala Lys Lys Gln Val Glu  
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Lys Ala Leu Glu Gln Leu Glu Asp Lys Val Gln Leu  
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1 5 10 15

Val Glu Lys Ala Leu Glu Gln Leu Glu Asp Lys Val Lys  
20 25

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